

# **SandRidge Energy**

**North Park Basin**

**T8N-R81W-S7**

**Grizzly 0881 2-1H36**

**Wellbore #1**

**Plan: Design #1**

## **Standard Survey Report**

**29 September, 2016**

# SandRidge Energy

## Survey Report

<b>Company:</b>	SandRidge Energy	<b>Local Co-ordinate Reference:</b>	Well Grizzly 0881 2-1H36
<b>Project:</b>	North Park Basin	<b>TVD Reference:</b>	KB @ 8146.0usft
<b>Site:</b>	T8N-R81W-S7	<b>MD Reference:</b>	KB @ 8146.0usft
<b>Well:</b>	Grizzly 0881 2-1H36	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #1	<b>Database:</b>	EDMProd

<b>Project</b>	North Park Basin		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

Site	T8N-R81W-S7					
Site Position:		Northing:	1,462,087.17 usft	Latitude:	40° 35' 53.334 N	
From:	Map	Easting:	2,743,086.13 usft	Longitude:	106° 25' 30.641 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.60 °

Well	Grizzly 0881 2-1H36					
Well Position	+N-S	0.0 usft	Northing:	1,462,087.35 usft	Latitude:	40° 35' 53.334 N
	+E-W	0.0 usft	Easting:	2,743,071.13 usft	Longitude:	106° 25' 30.836 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,130.0 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	12/31/2009	9.90	66.98	53,194

<b>Design</b>	Design #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	0.00	

<b>Survey Tool Program</b>	<b>Date</b>	9/29/2016			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	18,007.3	Design #1 (Wellbore #1)	Sperry MWD	Fixed:v2:standard declination	

<b>Planned Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	

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## Survey Report

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<b>Project:</b>	North Park Basin	<b>TVD Reference:</b>	KB @ 8146.0usft
<b>Site:</b>	T8N-R81W-S7	<b>MD Reference:</b>	KB @ 8146.0usft
<b>Well:</b>	Grizzly 0881 2-1H36	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #1	<b>Database:</b>	EDMPProd

### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Start Build 2.00</b>									
2,600.0	2.00	278.53	2,600.0	0.3	-1.7	0.3	2.00	2.00	0.00
2,668.0	3.36	278.53	2,667.9	0.7	-4.9	0.7	2.00	2.00	0.00
<b>Start 3367.2 hold at 2668.0 MD</b>									
2,700.0	3.36	278.53	2,699.8	1.0	-6.7	1.0	0.00	0.00	0.00
2,800.0	3.36	278.53	2,799.7	1.9	-12.5	1.9	0.00	0.00	0.00
2,900.0	3.36	278.53	2,899.5	2.7	-18.3	2.7	0.00	0.00	0.00
3,000.0	3.36	278.53	2,999.3	3.6	-24.1	3.6	0.00	0.00	0.00
3,100.0	3.36	278.53	3,099.2	4.5	-29.9	4.5	0.00	0.00	0.00
3,200.0	3.36	278.53	3,199.0	5.4	-35.7	5.4	0.00	0.00	0.00
3,300.0	3.36	278.53	3,298.8	6.2	-41.5	6.2	0.00	0.00	0.00
3,400.0	3.36	278.53	3,398.6	7.1	-47.3	7.1	0.00	0.00	0.00
3,500.0	3.36	278.53	3,498.5	8.0	-53.1	8.0	0.00	0.00	0.00
3,600.0	3.36	278.53	3,598.3	8.8	-58.9	8.8	0.00	0.00	0.00
3,700.0	3.36	278.53	3,698.1	9.7	-64.7	9.7	0.00	0.00	0.00
3,800.0	3.36	278.53	3,798.0	10.6	-70.5	10.6	0.00	0.00	0.00
3,900.0	3.36	278.53	3,897.8	11.4	-76.3	11.4	0.00	0.00	0.00
4,000.0	3.36	278.53	3,997.6	12.3	-82.1	12.3	0.00	0.00	0.00
4,100.0	3.36	278.53	4,097.4	13.2	-87.9	13.2	0.00	0.00	0.00
4,200.0	3.36	278.53	4,197.3	14.0	-93.7	14.0	0.00	0.00	0.00
4,300.0	3.36	278.53	4,297.1	14.9	-99.4	14.9	0.00	0.00	0.00
4,400.0	3.36	278.53	4,396.9	15.8	-105.2	15.8	0.00	0.00	0.00
4,500.0	3.36	278.53	4,496.8	16.7	-111.0	16.7	0.00	0.00	0.00
4,600.0	3.36	278.53	4,596.6	17.5	-116.8	17.5	0.00	0.00	0.00
4,700.0	3.36	278.53	4,696.4	18.4	-122.6	18.4	0.00	0.00	0.00
4,800.0	3.36	278.53	4,796.2	19.3	-128.4	19.3	0.00	0.00	0.00
4,900.0	3.36	278.53	4,896.1	20.1	-134.2	20.1	0.00	0.00	0.00
5,000.0	3.36	278.53	4,995.9	21.0	-140.0	21.0	0.00	0.00	0.00

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<b>Site:</b>	T8N-R81W-S7	<b>MD Reference:</b>	KB @ 8146.0usft
<b>Well:</b>	Grizzly 0881 2-1H36	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #1	<b>Database:</b>	EDMProd

### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	3.36	278.53	5,095.7	21.9	-145.8	21.9	0.00	0.00	0.00
5,200.0	3.36	278.53	5,195.6	22.7	-151.6	22.7	0.00	0.00	0.00
5,300.0	3.36	278.53	5,295.4	23.6	-157.4	23.6	0.00	0.00	0.00
5,400.0	3.36	278.53	5,395.2	24.5	-163.2	24.5	0.00	0.00	0.00
5,500.0	3.36	278.53	5,495.0	25.3	-169.0	25.3	0.00	0.00	0.00
5,600.0	3.36	278.53	5,594.9	26.2	-174.8	26.2	0.00	0.00	0.00
5,700.0	3.36	278.53	5,694.7	27.1	-180.6	27.1	0.00	0.00	0.00
5,800.0	3.36	278.53	5,794.5	28.0	-186.4	28.0	0.00	0.00	0.00
5,900.0	3.36	278.53	5,894.3	28.8	-192.2	28.8	0.00	0.00	0.00
6,000.0	3.36	278.53	5,994.2	29.7	-198.0	29.7	0.00	0.00	0.00
6,035.2	3.36	278.53	6,029.3	30.0	-200.0	30.0	0.00	0.00	0.00
<b>Start DLS 8.00 TFO 28.74</b>									
6,050.0	4.44	285.92	6,044.1	30.2	-201.0	30.2	8.00	7.26	49.88
6,100.0	8.29	296.08	6,093.8	32.3	-206.1	32.3	8.00	7.71	20.31
6,150.0	12.24	299.76	6,143.0	36.6	-213.9	36.6	8.00	7.90	7.38
6,200.0	16.21	301.67	6,191.4	42.9	-224.5	42.9	8.00	7.95	3.81
6,250.0	20.19	302.84	6,238.9	51.2	-237.7	51.2	8.00	7.97	2.34
6,300.0	24.18	303.63	6,285.2	61.6	-253.4	61.6	8.00	7.98	1.59
6,350.0	28.17	304.22	6,330.1	73.9	-271.7	73.9	8.00	7.98	1.16
6,400.0	32.17	304.66	6,373.3	88.1	-292.5	88.1	8.00	7.99	0.90
6,408.0	32.80	304.73	6,380.0	90.5	-296.0	90.5	8.00	7.99	0.78
<b>Niobrara</b>									
6,450.0	36.16	305.02	6,414.6	104.1	-315.5	104.1	8.00	7.99	0.70
6,500.0	40.16	305.32	6,453.9	121.9	-340.7	121.9	8.00	7.99	0.59
6,550.0	44.16	305.57	6,491.0	141.4	-368.1	141.4	8.00	7.99	0.50
6,600.0	48.15	305.79	6,525.6	162.4	-397.4	162.4	8.00	7.99	0.43
6,650.0	52.15	305.98	6,557.7	184.9	-428.5	184.9	8.00	7.99	0.38
6,700.0	56.15	306.15	6,586.9	208.8	-461.2	208.8	8.00	8.00	0.34
6,748.2	60.00	306.30	6,612.4	232.9	-494.2	232.9	8.00	8.00	0.31
<b>Start 150.0 hold at 6748.2 MD</b>									
6,800.0	60.00	306.30	6,638.3	259.5	-530.4	259.5	0.00	0.00	0.00
6,898.2	60.00	306.30	6,687.4	309.8	-598.9	309.8	0.00	0.00	0.00
<b>Start DLS 10.00 TFO 69.83</b>									
6,900.0	60.06	306.50	6,688.3	310.8	-600.1	310.8	10.00	3.46	10.83
6,950.0	61.90	311.81	6,712.6	338.4	-634.0	338.4	10.00	3.68	10.64
7,000.0	63.94	316.94	6,735.4	369.5	-665.8	369.5	10.00	4.07	10.26
7,050.0	66.15	321.89	6,756.5	403.9	-695.3	403.9	10.00	4.42	9.89
7,100.0	68.51	326.67	6,775.7	441.4	-722.2	441.4	10.00	4.73	9.55
7,150.0	71.01	331.29	6,793.1	481.6	-746.3	481.6	10.00	4.99	9.24
7,200.0	73.61	335.77	6,808.3	524.2	-767.6	524.2	10.00	5.21	8.96
7,250.0	76.31	340.12	6,821.2	568.9	-785.7	568.9	10.00	5.40	8.72
7,300.0	79.08	344.38	6,831.9	615.4	-800.5	615.4	10.00	5.55	8.52
7,350.0	81.91	348.56	6,840.1	663.4	-812.1	663.4	10.00	5.66	8.36
7,400.0	84.79	352.68	6,845.9	712.4	-820.1	712.4	10.00	5.74	8.24

# SandRidge Energy

## Survey Report

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<b>Project:</b>	North Park Basin	<b>TVD Reference:</b>	KB @ 8146.0usft
<b>Site:</b>	T8N-R81W-S7	<b>MD Reference:</b>	KB @ 8146.0usft
<b>Well:</b>	Grizzly 0881 2-1H36	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #1	<b>Database:</b>	EDMProd

### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,450.0	87.68	356.77	6,849.2	762.0	-824.7	762.0	10.00	5.80	8.17
7,489.8	90.00	0.00	6,850.0	801.8	-825.9	801.8	10.00	5.82	8.13
<b>Start 10517.6 hold at 7489.8 MD</b>									
7,500.0	90.00	0.00	6,850.0	812.0	-825.9	812.0	0.00	0.00	0.00
7,600.0	90.00	0.00	6,850.0	912.0	-825.8	912.0	0.00	0.00	0.00
7,700.0	90.00	0.00	6,850.0	1,012.0	-825.8	1,012.0	0.00	0.00	0.00
7,800.0	90.00	0.00	6,850.0	1,112.0	-825.8	1,112.0	0.00	0.00	0.00
7,900.0	90.00	0.00	6,850.0	1,212.0	-825.8	1,212.0	0.00	0.00	0.00
8,000.0	90.00	0.00	6,850.0	1,312.0	-825.8	1,312.0	0.00	0.00	0.00
8,100.0	90.00	0.00	6,850.0	1,412.0	-825.8	1,412.0	0.00	0.00	0.00
8,200.0	90.00	0.00	6,850.0	1,512.0	-825.8	1,512.0	0.00	0.00	0.00
8,300.0	90.00	0.00	6,850.0	1,612.0	-825.8	1,612.0	0.00	0.00	0.00
8,400.0	90.00	0.00	6,850.0	1,712.0	-825.8	1,712.0	0.00	0.00	0.00
8,500.0	90.00	0.00	6,850.0	1,812.0	-825.8	1,812.0	0.00	0.00	0.00
8,600.0	90.00	0.00	6,850.0	1,912.0	-825.8	1,912.0	0.00	0.00	0.00
8,700.0	90.00	0.00	6,850.0	2,012.0	-825.8	2,012.0	0.00	0.00	0.00
8,800.0	90.00	0.00	6,850.0	2,112.0	-825.8	2,112.0	0.00	0.00	0.00
8,900.0	90.00	0.00	6,850.0	2,212.0	-825.8	2,212.0	0.00	0.00	0.00
9,000.0	90.00	0.00	6,850.0	2,312.0	-825.8	2,312.0	0.00	0.00	0.00
9,100.0	90.00	0.00	6,850.0	2,412.0	-825.8	2,412.0	0.00	0.00	0.00
9,200.0	90.00	0.00	6,850.0	2,512.0	-825.8	2,512.0	0.00	0.00	0.00
9,300.0	90.00	0.00	6,850.0	2,612.0	-825.7	2,612.0	0.00	0.00	0.00
9,400.0	90.00	0.00	6,850.0	2,712.0	-825.7	2,712.0	0.00	0.00	0.00
9,500.0	90.00	0.00	6,850.0	2,812.0	-825.7	2,812.0	0.00	0.00	0.00
9,600.0	90.00	0.00	6,850.0	2,912.0	-825.7	2,912.0	0.00	0.00	0.00
9,700.0	90.00	0.00	6,850.0	3,012.0	-825.7	3,012.0	0.00	0.00	0.00
9,800.0	90.00	0.00	6,850.0	3,112.0	-825.7	3,112.0	0.00	0.00	0.00
9,900.0	90.00	0.00	6,850.0	3,212.0	-825.7	3,212.0	0.00	0.00	0.00
10,000.0	90.00	0.00	6,850.0	3,312.0	-825.7	3,312.0	0.00	0.00	0.00
10,100.0	90.00	0.00	6,850.0	3,412.0	-825.7	3,412.0	0.00	0.00	0.00
10,200.0	90.00	0.00	6,850.0	3,512.0	-825.7	3,512.0	0.00	0.00	0.00
10,300.0	90.00	0.00	6,850.0	3,612.0	-825.7	3,612.0	0.00	0.00	0.00
10,400.0	90.00	0.00	6,850.0	3,712.0	-825.7	3,712.0	0.00	0.00	0.00
10,500.0	90.00	0.00	6,850.0	3,812.0	-825.7	3,812.0	0.00	0.00	0.00
10,600.0	90.00	0.00	6,850.0	3,912.0	-825.7	3,912.0	0.00	0.00	0.00
10,700.0	90.00	0.00	6,850.0	4,012.0	-825.7	4,012.0	0.00	0.00	0.00
10,800.0	90.00	0.00	6,850.0	4,112.0	-825.7	4,112.0	0.00	0.00	0.00
10,900.0	90.00	0.00	6,850.0	4,212.0	-825.7	4,212.0	0.00	0.00	0.00
11,000.0	90.00	0.00	6,850.0	4,312.0	-825.7	4,312.0	0.00	0.00	0.00
11,100.0	90.00	0.00	6,850.0	4,412.0	-825.6	4,412.0	0.00	0.00	0.00
11,200.0	90.00	0.00	6,850.0	4,512.0	-825.6	4,512.0	0.00	0.00	0.00
11,300.0	90.00	0.00	6,850.0	4,612.0	-825.6	4,612.0	0.00	0.00	0.00
11,400.0	90.00	0.00	6,850.0	4,712.0	-825.6	4,712.0	0.00	0.00	0.00
11,500.0	90.00	0.00	6,850.0	4,812.0	-825.6	4,812.0	0.00	0.00	0.00

# SandRidge Energy

## Survey Report

<b>Company:</b>	SandRidge Energy	<b>Local Co-ordinate Reference:</b>	Well Grizzly 0881 2-1H36
<b>Project:</b>	North Park Basin	<b>TVD Reference:</b>	KB @ 8146.0usft
<b>Site:</b>	T8N-R81W-S7	<b>MD Reference:</b>	KB @ 8146.0usft
<b>Well:</b>	Grizzly 0881 2-1H36	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #1	<b>Database:</b>	EDMProd

### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,600.0	90.00	0.00	6,850.0	4,912.0	-825.6	4,912.0	0.00	0.00	0.00
11,700.0	90.00	0.00	6,850.0	5,012.0	-825.6	5,012.0	0.00	0.00	0.00
11,800.0	90.00	0.00	6,850.0	5,112.0	-825.6	5,112.0	0.00	0.00	0.00
11,900.0	90.00	0.00	6,850.0	5,212.0	-825.6	5,212.0	0.00	0.00	0.00
12,000.0	90.00	0.00	6,850.0	5,312.0	-825.6	5,312.0	0.00	0.00	0.00
12,100.0	90.00	0.00	6,850.0	5,412.0	-825.6	5,412.0	0.00	0.00	0.00
12,200.0	90.00	0.00	6,850.0	5,512.0	-825.6	5,512.0	0.00	0.00	0.00
12,300.0	90.00	0.00	6,850.0	5,612.0	-825.6	5,612.0	0.00	0.00	0.00
12,400.0	90.00	0.00	6,850.0	5,712.0	-825.6	5,712.0	0.00	0.00	0.00
12,500.0	90.00	0.00	6,850.0	5,812.0	-825.6	5,812.0	0.00	0.00	0.00
12,600.0	90.00	0.00	6,850.0	5,912.0	-825.6	5,912.0	0.00	0.00	0.00
12,700.0	90.00	0.00	6,850.0	6,012.0	-825.6	6,012.0	0.00	0.00	0.00
12,800.0	90.00	0.00	6,850.0	6,112.0	-825.5	6,112.0	0.00	0.00	0.00
12,900.0	90.00	0.00	6,850.0	6,212.0	-825.5	6,212.0	0.00	0.00	0.00
13,000.0	90.00	0.00	6,850.0	6,312.0	-825.5	6,312.0	0.00	0.00	0.00
13,100.0	90.00	0.00	6,850.0	6,412.0	-825.5	6,412.0	0.00	0.00	0.00
13,200.0	90.00	0.00	6,850.0	6,512.0	-825.5	6,512.0	0.00	0.00	0.00
13,300.0	90.00	0.00	6,850.0	6,612.0	-825.5	6,612.0	0.00	0.00	0.00
13,400.0	90.00	0.00	6,850.0	6,712.0	-825.5	6,712.0	0.00	0.00	0.00
13,500.0	90.00	0.00	6,850.0	6,812.0	-825.5	6,812.0	0.00	0.00	0.00
13,600.0	90.00	0.00	6,850.0	6,912.0	-825.5	6,912.0	0.00	0.00	0.00
13,700.0	90.00	0.00	6,850.0	7,012.0	-825.5	7,012.0	0.00	0.00	0.00
13,800.0	90.00	0.00	6,850.0	7,112.0	-825.5	7,112.0	0.00	0.00	0.00
13,900.0	90.00	0.00	6,850.0	7,212.0	-825.5	7,212.0	0.00	0.00	0.00
14,000.0	90.00	0.00	6,850.0	7,312.0	-825.5	7,312.0	0.00	0.00	0.00
14,100.0	90.00	0.00	6,850.0	7,412.0	-825.5	7,412.0	0.00	0.00	0.00
14,200.0	90.00	0.00	6,850.0	7,512.0	-825.5	7,512.0	0.00	0.00	0.00
14,300.0	90.00	0.00	6,850.0	7,612.0	-825.5	7,612.0	0.00	0.00	0.00
14,400.0	90.00	0.00	6,850.0	7,712.0	-825.5	7,712.0	0.00	0.00	0.00
14,500.0	90.00	0.00	6,850.0	7,812.0	-825.5	7,812.0	0.00	0.00	0.00
14,600.0	90.00	0.00	6,850.0	7,912.0	-825.4	7,912.0	0.00	0.00	0.00
14,700.0	90.00	0.00	6,850.0	8,012.0	-825.4	8,012.0	0.00	0.00	0.00
14,800.0	90.00	0.00	6,850.0	8,112.0	-825.4	8,112.0	0.00	0.00	0.00
14,900.0	90.00	0.00	6,850.0	8,212.0	-825.4	8,212.0	0.00	0.00	0.00
15,000.0	90.00	0.00	6,850.0	8,312.0	-825.4	8,312.0	0.00	0.00	0.00
15,100.0	90.00	0.00	6,850.0	8,412.0	-825.4	8,412.0	0.00	0.00	0.00
15,200.0	90.00	0.00	6,850.0	8,512.0	-825.4	8,512.0	0.00	0.00	0.00
15,300.0	90.00	0.00	6,850.0	8,612.0	-825.4	8,612.0	0.00	0.00	0.00
15,400.0	90.00	0.00	6,850.0	8,712.0	-825.4	8,712.0	0.00	0.00	0.00
15,500.0	90.00	0.00	6,850.0	8,812.0	-825.4	8,812.0	0.00	0.00	0.00
15,600.0	90.00	0.00	6,850.0	8,912.0	-825.4	8,912.0	0.00	0.00	0.00
15,700.0	90.00	0.00	6,850.0	9,012.0	-825.4	9,012.0	0.00	0.00	0.00
15,800.0	90.00	0.00	6,850.0	9,112.0	-825.4	9,112.0	0.00	0.00	0.00

# SandRidge Energy

## Survey Report

<b>Company:</b>	SandRidge Energy	<b>Local Co-ordinate Reference:</b>	Well Grizzly 0881 2-1H36
<b>Project:</b>	North Park Basin	<b>TVD Reference:</b>	KB @ 8146.0usft
<b>Site:</b>	T8N-R81W-S7	<b>MD Reference:</b>	KB @ 8146.0usft
<b>Well:</b>	Grizzly 0881 2-1H36	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #1	<b>Database:</b>	EDMProd

### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,900.0	90.00	0.00	6,850.0	9,212.0	-825.4	9,212.0	0.00	0.00	0.00
16,000.0	90.00	0.00	6,850.0	9,312.0	-825.4	9,312.0	0.00	0.00	0.00
16,100.0	90.00	0.00	6,850.0	9,412.0	-825.4	9,412.0	0.00	0.00	0.00
16,200.0	90.00	0.00	6,850.0	9,512.0	-825.4	9,512.0	0.00	0.00	0.00
16,300.0	90.00	0.00	6,850.0	9,612.0	-825.3	9,612.0	0.00	0.00	0.00
16,400.0	90.00	0.00	6,850.0	9,712.0	-825.3	9,712.0	0.00	0.00	0.00
16,500.0	90.00	0.00	6,850.0	9,812.0	-825.3	9,812.0	0.00	0.00	0.00
16,600.0	90.00	0.00	6,850.0	9,912.0	-825.3	9,912.0	0.00	0.00	0.00
16,700.0	90.00	0.00	6,850.0	10,012.0	-825.3	10,012.0	0.00	0.00	0.00
16,800.0	90.00	0.00	6,850.0	10,112.0	-825.3	10,112.0	0.00	0.00	0.00
16,900.0	90.00	0.00	6,850.0	10,212.0	-825.3	10,212.0	0.00	0.00	0.00
17,000.0	90.00	0.00	6,850.0	10,312.0	-825.3	10,312.0	0.00	0.00	0.00
17,100.0	90.00	0.00	6,850.0	10,412.0	-825.3	10,412.0	0.00	0.00	0.00
17,200.0	90.00	0.00	6,850.0	10,512.0	-825.3	10,512.0	0.00	0.00	0.00
17,300.0	90.00	0.00	6,850.0	10,612.0	-825.3	10,612.0	0.00	0.00	0.00
17,400.0	90.00	0.00	6,850.0	10,712.0	-825.3	10,712.0	0.00	0.00	0.00
17,500.0	90.00	0.00	6,850.0	10,812.0	-825.3	10,812.0	0.00	0.00	0.00
17,600.0	90.00	0.00	6,850.0	10,912.0	-825.3	10,912.0	0.00	0.00	0.00
17,700.0	90.00	0.00	6,850.0	11,012.0	-825.3	11,012.0	0.00	0.00	0.00
17,800.0	90.00	0.00	6,850.0	11,112.0	-825.3	11,112.0	0.00	0.00	0.00
17,900.0	90.00	0.00	6,850.0	11,212.0	-825.3	11,212.0	0.00	0.00	0.00
18,007.3	90.00	0.00	6,850.0	11,319.3	-825.2	11,319.3	0.00	0.00	0.00
TD at 18007.3									

### Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Grizzly 2 - plan hits target center - Point	0.00	0.00	6,850.0	11,319.3	-825.2	1,473,406.69	2,742,245.88	40° 37' 45.095 N	106° 25' 43.070 W

### Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,408.0	6,380.0	Niobrara		0.00	

# SandRidge Energy

## Survey Report

<b>Company:</b>	SandRidge Energy	<b>Local Co-ordinate Reference:</b>	Well Grizzly 0881 2-1H36
<b>Project:</b>	North Park Basin	<b>TVD Reference:</b>	KB @ 8146.0usft
<b>Site:</b>	T8N-R81W-S7	<b>MD Reference:</b>	KB @ 8146.0usft
<b>Well:</b>	Grizzly 0881 2-1H36	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #1	<b>Database:</b>	EDMProd

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2668	2668	1	-5	Start 3367.2 hold at 2668.0 MD
6035	6029	30	-200	Start DLS 8.00 TFO 28.74
6748	6612	233	-494	Start 150.0 hold at 6748.2 MD
6898	6687	310	-599	Start DLS 10.00 TFO 69.83
7490	6850	802	-826	Start 10517.6 hold at 7489.8 MD
18,007	6850	11,319	-825	TD at 18007.3

Checked By: _____	Approved By: _____	Date: _____
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